

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Jain, et al.)
)
Appl. No.	:	Unknown)
)
Filed	:	February 5, 2002)
)
For	:	VIDEO CATALOGER)
		SYSTEM WITH AUDIO)
		TRACK EXTRACTION)
)
Examiner	:	Unknown)

PRELIMINARY AMENDMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 20231

Dear Sir:

Applicant respectfully requests that the Examiner enter the following amendments and consider the following remarks.

IN THE SPECIFICATION:

Please amend the paragraph at page 1, line 9 to line 14 as follows:

This application is a continuation of U.S. Application No. 10/010,579, filed November 8, 2001, which is a continuation of U.S. Application No. 09/134,500, filed August 14, 1998, which are hereby incorporated by reference. The subject matter of U.S. patent applications: Serial No. 09/134,498, filed August 14, 1998 and entitled "VIDEO CATALOGER SYSTEM WITH EXTENSIBILITY"; Serial No. 09/134,499, filed August 14, 1998 and entitled "VIDEO CATALOGER SYSTEM WITH HYPERLINKED OUTPUT"; and Serial No. 09/134,497, filed August 14, 1998 and entitled "VIDEO CATALOGER SYSTEM WITH SYNCHRONIZED ENCODERS" are related to this application.

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IN THE CLAIMS:

Please add the following claims:

18. An audio engine for extracting metadata tracks, comprising:
an audio signal switch receiving an audio signal;
an audio classification component in data communication with and controlling the audio signal switch according to whether the audio signal is classified as speech; and
a plurality of audio metadata track extraction components in data communication with the output of the switch, wherein each audio metadata track extraction component provides an audio metadata track associated with speech.
19. The audio engine of Claim 18, wherein the audio metadata tracks include at least speaker identification.
20. The audio engine of Claim 18, wherein the audio classification component additionally classifies at least music.
21. The audio engine of Claim 18, wherein the audio metadata track extraction components receive data from a customizable dictionary of data associated with the extracted metadata tracks.
22. The audio engine of Claim 18, wherein the audio signal is received from a remote real-time source.
23. The audio engine of Claim 18, wherein the audio signal is received from a remote digital source.
24. A method of extracting audio for indexing of video, comprising:
receiving video information having embedded audio information and associated time codes;

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capturing the embedded audio information in the video information;
extracting a plurality of audio metadata tracks from the audio information, each audio metadata track being associated with selected ones of the time codes indicative at least of start and stop times for the audio metadata track;
encoding the video information; and
accessing the encoded video information with the selected time codes of one of the audio metadata tracks.

25. The method of Claim 24, wherein the video information is received from a remote digital source.

26. The method of Claim 24, wherein the plurality of audio metadata tracks includes at least one of: keywords, speech-to-text transcription, speaker identification and audio class.

27. An audio engine for extracting metadata tracks, comprising:
an audio signal switch receiving an audio signal;
an audio classification engine;
an audio class dictionary configured to provide dictionary data indicative of audio classes to the audio classification engine;
an audio class profiler in data communication with the audio classification engine, wherein the audio class profiler receives the audio signal, and wherein the audio class profiler is further in data communication with and controls the audio signal switch according to whether the audio signal is classified as speech; and
a plurality of audio metadata track extraction components in data communication with the output of the switch, wherein each audio metadata track extraction component provides an audio metadata track associated with speech.

28. The audio engine of Claim 27, additionally comprising:
an audio capture component for capturing and digitizing an analog audio source;
and

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an audio signal normalization component for normalizing the digitized audio prior to processing.

29. The audio engine of Claim 27, wherein the audio metadata tracks include at least one of: keywords, speech-to-text transcription and speaker identification.

30. The audio engine of Claim 27, wherein the audio class profiler additionally classifies at least silence and music.

31. The audio engine of Claim 27, wherein the audio metadata track extraction components receive data from a customizable dictionary of data associated with the extracted metadata tracks.

32. The audio engine of Claim 27, wherein the audio signal is received from a real-time source.

33. The audio engine of Claim 27, wherein the audio signal is received from a digital source.

34. The audio engine of Claim 27, wherein the audio signal is received from a digital camcorder.

35. The audio engine of Claim 27, wherein the audio class dictionary is customizable.

REMARKS

The Related Applications section of the specification is amended to add the application numbers of the related applications. New Claims 18-35 have been added and Claims 1-17 remain unchanged. Claims 1-35 are pending in the application and are presented for reconsideration.

The specific changes to the specification are shown on a separate page attached hereto and entitled **VERSION WITH MARKINGS TO SHOW CHANGES MADE**, which follows the

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signature page of this Amendment. On this page, the insertions are double underlined while the ~~deletions are struck through~~.

CONCLUSION

Applicant believes that the claims are patentable. However, if the Examiner finds any impediment to allowing all claims that can be resolved by telephone, the Examiner is respectfully requested to call the undersigned.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: February 5, 2002

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